

GENERAL INFORMATION

Boiler & Pressure Vessels

Visit the Department of Safety and Professional Services Website:

<http://www.dsps.wi.gov>

(Scroll down left, Click Division of Industry Services)

Conveniently obtain for view or print:

- Staff Contact Information
- Specific Programs, "Boilers"
- Code Copies, "Chapter SPS 341"
- Inspector District Maps
- Division Forms, "SBD-6314 or SBD-5204"
- Credential Status or Applications
- Regulated Object data



CODE SECTION HIGHLIGHTS

SPS 340 – Gas Systems Code

PLAN REVIEW REQUIRED

- *Liquid Petroleum Gas
Containers 2000 gallons and larger
Aggregate 4000 gallons and larger
- *Compressed Natural Gas
No size limitations
- *Liquid Natural Gas
Containers 2000 gallons and larger
- *Adopted Standards
NFPA 58 – LPG
NFPA 52 – CNG
NFPA 59A – LNG
ANSI/ASME B31.3 – Piping

SUBMIT PLANS & APPLICATION FORM

- *SBD-6038 – Install application and plans

Scaled plans see SPS 340.10
Indicate roads and property lines
Foundation – pier, bulkhead, supports
Piping schematic w/materials
Vessel information – provide
Manufacturers Data Report (MDR)
Surface area of tank
Pressure relief set/capacity

- *Site Inspection necessary after plan approval
Contact District Inspector

SPS 341 – Boiler & Pressure Vessels

INSTALLATION REGISTRATION REQUIRED

- *SBD-6314 / Boiler & Pressure Vessel Form
By installing contractor ... no fee

PERMIT TO OPERATE "PTO" REQUIRED

- *Power Boilers Annual
Internally inspected
- *Heating Boilers Every 3 yrs
Steam or hot water boilers
Internally or externally inspected
- *Pressure Vessels
Air tanks (≥ 12 cu ft) Every 3 yrs
Other tanks (> 5 cu ft) Every 3 yrs
Externally inspected

Note: See SPS 341.18, Exemptions from inspection

- *SBD-5204 / Power piping form
Steam pipe systems over 15 PSIG

Note: SBD-5204 form shall be completed and made available to the certified inspector at the time of inspection. Fee by hour/2 hour minimum. Inspection is required for power piping over 2" NPS / exceeding 50 feet in length.

WELDED REPAIR / ALTERATIONS

Repair and alterations to boilers and pressure vessels must be completed in accordance with the National Board Inspection Code (NBIC) by a valid National Board "R" stamp holder. All repairs and alterations including "routine repairs" shall

be registered on the appropriate form with the National Board per SPS 341.62.

DEFINITIONS

*Certified Inspector – Person who holds a valid credential issued by the department under ch SPS 305 as a certified boiler-pressure vessel inspector

*External Inspection – An inspection made while the boiler or pressure vessel is in operation

*Internal Inspection – An inspection made when the boiler or pressure vessel is shut down and hand hole and manholes or other openings are opened or removed for inspection of the interior as required by the inspector

*Power Piping – Steam piping in excess of 15 psig or hot water piping in excess of 250 degrees F beyond the scope of boiler external piping

*Power piping standard - Is ANSI/ASME B 31.1 adopted in SPS 341 for the design and installation of power piping. Purchase from ASME @ 1-800-843-2763.

NATIONAL BOARD COMMISSION EXAMS

*Commission exams can be scheduled the first Wednesday and half day Thursday of March, June, September and December, Fee per SPS 302.11(8). Contact the Waukesha office.

SPS 343 – Anhydrous Ammonia

PLAN REVIEW REQUIRED

- *Anhydrous Ammonia Storage
No size limitations
- *Adopted Standards
ANSI / K 61.1 – NH₃
ANSI / ASME B31.3 - Piping

SUBMIT PLANS & APPLICATION FORM

- *SBD-6038 – Installation application
Scaled plans see SPS 343.10
Indicate roads and property lines

Foundation – pier, bulkhead, supports
Piping schematic w/materials
Vessel information – provide MDR
Surface area of tank
Pressure relief set/capacity

*Site inspection necessary after plan approval
Contact District Inspector

PERMIT TO OPERATE REQUIRED

*Anhydrous ammonia storage every 3 yrs.
External inspection performed
*Nurse tank inspection every 3 yrs.
External inspection performed

SPS 345 – Mechanical Refrigeration

INSTALLATION REGISTRATION REQUIRED

*SBD-34 / Mechanical refrigeration form
*SBD-5204 / Welded refrigeration piping form
Both by installing contractor ... no fee

Note: No fee for registration submittal but fees are levied for mandatory inspections per Chapt. SPS 302.

PERMIT TO OPERATE “PTO” REQUIRED

*Toxic-flammable refrigerant systems
10 ton and above ... annual inspection
*Regular refrigerant systems
50 Ton & above ... inspect every 3 yrs
*Equipment externally inspected

Note: Single family and duplex installations are exempt from PTO requirements but contact your local authority for permit or inspection requirements in your area.

HVAC CONTRACTOR REGISTRATION

*HVAC Contractor is a “Business registration”
Initial Application \$15.00
Registration/Renewal \$160.00 / 4 years

Note Federal EPA Section 608 Technician Certification is required and Federal EPA rules apply for ozone-depleting refrigerant recovery, recycling and reclaiming. Questions on Federal rules.

Contact EPA HOT LINE 1-800-296-1996

STRUCTURAL STEEL WELDING

*Structural welders shall be qualified in accordance with AWS D1.1, D1.2, D1.3 or D1.6
*Structural steel weld test conductors are required to pass a written WI exam before conducting structural steel weld tests.

Initial Application Fee \$15

Exam \$20.00, certification \$80.00

Renewal every 4 years

Note: A list of WI certified weld test conductors is provided on the welder’s application form.

*For WI structural welder qualification:

1. Obtain a structural welder application
2. Consult with a WI weld test conductor
3. Perform weldment of test coupon
4. Upon satisfactory test results
5. Initial application fee \$15
6. Return application with \$35.00 Fee
7. Welder re-test/renewal every 4 years

*Applications, examination or renewals

Contact Credentials .. **608-261-8500**

PLAN SUBMITTALS / ASSISTANCE

To: DSPS – Division of Industry Services
141 NW Barstow St, 4th Floor
Waukesha WI 53188

Contact: Mike Verhagen /262-548-8617

Email: mike.verhagen@wi.gov

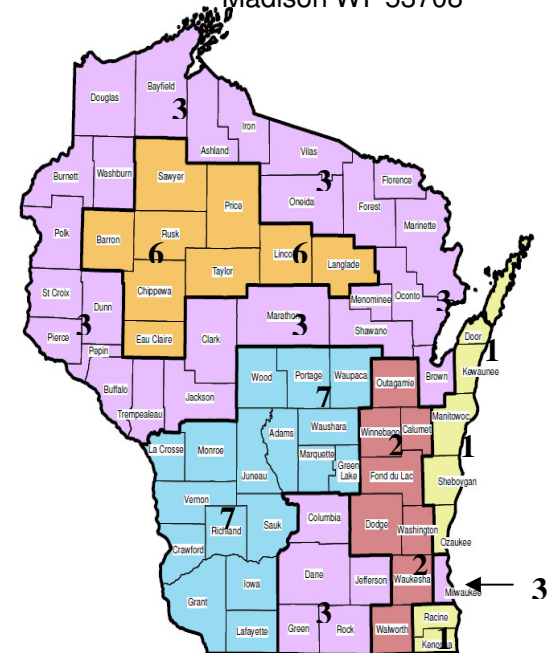
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BOILER PRESSURE VESSEL PROGRAM

Department Safety and Professional
Services,

Bureau of Field Services
1400 E. Washington Ave,
Madison WI 53708



<u>District 1</u>	<u>District 2</u>	<u>District 3</u> - includes
Dave Homan	Terence Waldbillig	Milwaukee County
262-424-1471	414-303-8575	Damarc-S
		866-361-4321

<u>District 6</u>	<u>Waukesha Office</u>	<u>District 7</u>
Duane Leetch	Rick Merkle	Dean Yourchuck, Jr
715-559-8817	Section Chief	608-235-0607